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# List of publications

Sergiy Vorobyov

## J. JOURNAL PAPERS

### J1. Journal papers in English

- [1] Y. Rong, S.A. Vorobyov, and A.B. Gershman, "OFDM Wireless Communication Systems With One Bit Per Subcarrier Channel State Information Feedback".
- [3] Y. Rong, S.A. Vorobyov, and A.B. Gershman, "Linear Block Precoding for OFDM Systems Based on Maximization of Cutoff Rate", (submitted in Mar., 2004).
- [3] Y. Rong, S.A. Vorobyov, and A.B. Gershman, "Robust Linear Multi-User MIMO Receivers Based on Probability-Constrained Stochastic Optimization".
- [4] S.A. Vorobyov and A.B. Gershman, "Unitary Preshwhitening With a Real-Valued Eigendecomposition".
- [5] S.A. Vorobyov, Y. Rong, N.D. Sidiropoulos, and A.B. Gershman, "Robust Iterative Fitting of Multilinear Models", *IEEE Trans. Signal Processing*, accepted.
- [6] Y. Rong, S.A. Vorobyov, A.B. Gershman, and N.D. Sidiropoulos, "Blind Spatial Signature Estimation via Time-Varying User Power Loading and Parallel Factor Analysis", *IEEE Trans. Signal Processing*, to appear.
- [7] S.A. Vorobyov, A.B. Gershman, and K.M. Wong, "Maximum Likelihood Direction of Arrival Estimation in Unknown Noise Fields Using Sparse Sensor Arrays", *IEEE Trans. Signal Processing*, to appear.
- [8] S.A. Vorobyov, A.B. Gershman, Z.-Q. Luo, and N. Ma, "Adaptive Beamforming with Joint Robustness Against Mismatched Signal Steering Vector and Interference Nonstationarity", *IEEE Signal Processing Letters*, vol. 11, No. 2, pp. 108-111, Feb. 2004.
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- [10] S.A. Vorobyov and A. Cichocki, "Blind Noise Reduction for Multi-Sensory Signals Using ICA and Subspace Filtering, with Application to EEG Analysis", *Biological Cybernetics*, vol. 86, No. 4, pp.293-303, Apr. 2002.
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- [12] S.A. Vorobyov, A. Cichocki and Ye.V. Bodyanskiy, "Adaptive Noise Cancellation for Multi-Sensory Signals", *Fluctuation and Noise Letters*, vol.1, No.1, pp.R13-R24, Mar. 2001.
- [13] Ye.V. Bodyanskiy and S.A. Vorobyov (Vorob'ev), "Recurrent Neural Network Detecting

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